

CLAIMS:

1. In an ion chromatography system wherein a desired ion species in a sample is separated by a separating means; an eluted liquid from the separating means is introduced into a suppressor means, in which an ion exchanger is held, to reduce the electric conductivity of the eluted liquid, and the eluted liquid from the suppressor is introduced into a detector to detect desired ions, the ion chromatography system being characterized in that the suppressor means is provided with a main body for accommodating an ion exchanger ready for measuring; a chamber for accommodating a virgin ion exchanger, and an automatic exchanging means which discharges a used ion exchanger from the main body after an optional number of times of measurements and supplies the ion exchanger accommodated in the chamber to the main body.
2. The ion chromatography system according to Claim 1, wherein the suppressor means comprises a 6-way switching rotary valve having 3 rotary grooves a, b and c, a chamber for accommodating a virgin ion exchanger in a slurry state, a liquid transferring tank which accommodates a transferring liquid for introducing the ion exchanger in a slurry state in the chamber into the rotary valve, and a liquid transferring means for supplying the transferring liquid; a flow passage from the separating means is connected to a flow passage to the detector by means of the rotary groove a; a flow

passage from the liquid transferring means to the chamber is connected to a flow passage to a third rotary groove by means of the rotary groove b; a flow passage from the rotary groove b is connected to a flow passage to the outside of the main body by means of the rotary groove c, and each filter which prevents the ion exchanger from passing through is provided at a side of the separating means with respect to the rotary groove a, at a side of the detecting means with respect to the rotary groove a and at a side of the rotary groove c with respect to the rotary groove b.

3. The ion chromatography system according to Claim 1, wherein the suppressor means comprises a tube having both ends which are tightly closed with sealing materials capable of passing only a string-like ion exchanger; a chamber for accommodating a virgin string-like ion exchanger, and a supply means which introduces the string-like ion exchanger in the chamber into the tube from its one end and discharges it from the other end of the tube; a portion in the vicinity of one end of the tube is connected to a flow passage from the separating means, and a portion in the vicinity of the other end of the tube is connected to the detecting means.

4. The ion chromatography system according to Claim 1, wherein the exchanging means is to replace the used ion exchanger by a new ion exchanger every predetermined number of times of measurement.

from its one end and discharges it from the other end of the tube.

9. The ion exchanging means according to Claim 6, wherein the exchanging means is to replace the used ion
5 exchanger by a new ion exchanger every predetermined number of times of measurement.

10. The ion exchanging means according to Claim 6, wherein the ion exchanger is an ion exchange resin or ion exchange fibers.

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